

Title (en)

HIGHLY DELAMINATED HEXAGONAL BORON NITRIDE POWDERS, PROCESS FOR MAKING, AND USES THEREOF

Title (de)

HOCHGRADIG DELAMINIERTE HEXAGONALE BORNITRIDPULVER, HERSTELLUNGSVERFAHREN, UND VERWENDUNGEN DAVON

Title (fr)

POUDRES DE NITRURE DE BORE A STRUCTURE HEXAGONALE HAUTEMENT DELAMINEES, PROCEDE DE PREPARATION ET UTILISATION ASSOCIEE

Publication

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Application

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Abstract (en)

[origin: WO0183371A2] The present invention relates to a powder comprising boron nitride particles having an aspect ratio of from about 50 to about 300. The present invention also relates to a method of making delaminated boron nitride powder. This method involves providing boron nitride powder and milling the boron nitride powder in a mixture including a milling media and a milling liquid under conditions effective to produce delaminated boron nitride powder. Another aspect of the present invention is a method for extruding a molten polymer. This method involves blending a powder comprising hexagonal boron nitride particles having an aspect ratio of from about 50 to about 300 with a polymer to form a blend and extruding the blend through an extruder under conditions effective to disperse the boron nitride particles throughout the polymer to form an extrusion product.

IPC 8 full level

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WO 0183371 A2 20011108; **WO 0183371 A3 20020321**; AT E402119 T1 20080815; AU 5747201 A 20011112; DE 60134970 D1 20080904; EP 1278701 A2 20030129; EP 1278701 B1 20080723; ES 2311015 T3 20090201; JP 2003531802 A 20031028; JP 2008280243 A 20081120; US 2002006511 A1 20020117; US 2004076572 A1 20040422; US 6660241 B2 20031209; US 6951583 B2 20051004

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